



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Cost Summary Lone Surprise Sale 341-03-73

District: Coos

Date: 4/3/03

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,306,151.70	\$4,239.06	\$1,310,390.76
		Project Work	(\$25,140.00)
		Advertised Value	\$1,285,250.76



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Timber Description Lone Surprise Sale 341-03-73

District: Coos

Location: Portions of Sections 25 and 26, T23S; R10W; W.M.; Douglas County, Oregon

Date: 4/3/03

Stand Stocking: 60%

Species	Avg. DBH	Amortized%	Recovery%
Douglas - Fir	20	0	95
Western Hemlock / Fir	17	0	95
Alder (Red)	14	0	100

Volume by Grade	Douglas - Fir	Western Hemlock / Fir	Alder (Red)	Total
3P	219	0	0	219
SM	219	0	0	219
2S	1,595	0	0	1,595
3S	346	0	0	346
4S	89	0	0	89
Camprun	0	221	14	235
Total	2,468	221	14	2,703

Comments: Pond Values Used: 1st Quarter 2003



Timber Sale Appraisal Logging Conditions Lone Surprise Sale 341-03-73

"STEWARDSHIP IN FORESTRY"

Combination#: 1	Douglas - Fir	100.00%	
	Western Hemlock / Fir	100.00%	
	Alder (Red)	100.00%	
Yarding Distance:	Short (400 ft)		Downhill Yarding: No
Logging System:	Cable: Large Tower >=70		Process: Manual Delimiting
Tree Size:	Mature / Regen Cut (900 Bft/tree), 3-5 logs/MBF		
Loads/Day:	18		Bd. Ft./Load: 4,800
Cost/MBF:	\$41.09		
Machines:			
	Log Loader (A)		
	Tower Yarder (Large)		



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal

Logging Costs

Lone Surprise

Sale 341-03-73

Date: 4/3/03

Operating Seasons: 1.0

Profit & Risk: 12%

Project Costs: \$25,140

Other Costs (P/R): \$6,204

Slash Disposal: \$0

Other Costs: \$0

Road Maintenance: \$0.00

Miles of Road			
Dirt	Rock (Contractor)	Rock (State)	Paved
0.4	0.0	0.0	0.0

Hauling Costs

Species	\$/MBF	Trips/Day	MBF/Load
Douglas - Fir	\$0.00	3.0	4.8
Western Hemlock / Fir	\$0.00	3.0	3.8
Alder (Red)	\$0.00	3.0	3.5



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Logging Costs Breakdown Lone Surprise Sale 341-03-73

Costs	Douglas - Fir	Western Hemlock / Fir	Alder (Red)
Logging	41.09	41.09	41.09
Road Maintenance	0.13	0.13	0.12
Fire Protection	1.01	1.01	0.00
Hauling	32.26	40.37	43.80
Other (P/R appl.)	2.31	2.31	0.00
Profit & Risk	9.22	10.19	10.20
Slash Disposal	0.00	0.00	0.00
Scaling	2.00	2.00	2.00
Other	0.00	0.00	0.00
Total	88.02	97.10	97.21

Amortization	0.00	0.00	0.00
Pond Value	592.37	375.00	400.00
Stumpage	504.35	277.90	302.79
Amortized	0.00	0.00	0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal Summary Lone Surprise Sale 341-03-73

Amortized

	Douglas - Fir	Western Hemlock / Fir	Alder (Red)
MBF	0.00	0.00	0.00
Value	0.00	0.00	0.00
Total	0.00	0.00	0.00

Unamortized

	Douglas - Fir	Western Hemlock / Fir	Alder (Red)
MBF	2,468.00	221.00	14.00
Value	504.35	277.90	302.79
Total	1,244,735.80	61,415.90	4,239.06

Gross Timber Sale Value

Recovery \$1,310,390.76

Prepared by: Robert Fields

Date: 4/3/03

District: Coos

Phone: (541) 267-1755

**SUMMARY OF CONSTRUCTION COST
Lone Surprise**

Project No. 1: Road Construction

Points: B to C Length: 300' Type: 14' no ditch

Clearing and Grubbing

Clear and grub through reprod	0.25	acres at	\$450.00	\$ per acre =	\$112.50
Clear and grub for landing	0.65	acres at	\$1,130.00	\$ per acre =	\$734.50

Total clearing and grubbing \$847.00

Excavation

Cat excavation and compaction of fill	10	hrs at	\$125.00	per hr	\$1,250.00
Laborer	10	hrs at	\$30.00	per hr	\$300.00

Total Excavation \$1,550.00

Move-in

Equipment	Miles	Mileage Factor	Equipment Allowance	Total
Excavator	50	1	\$533.00	\$533.00
D8 Cat	50	1	\$533.00	\$533.00
Grader	50	1	\$241.00	\$241.00

Total Move-in \$1,307.00

Grade Road Surface

1	hrs Grade @	\$75.00	per hour	\$75.00
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Total Grading \$75.00

Project 1 Cost \$3,779.00

Project 2: Road Improvement

Points: A to B Length: 1530' Type: 14' no ditch

Clearing and Grubbing

Excavator to clear trees from road edges	5	hrs at	\$110.00	per hr	\$550.00
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Total clearing and grubbing \$550.00

Excavation

Cat time for improvements	10	hrs at	\$125.00	per hr	\$1,250.00
Excavator for improvements	5	hrs at	\$110.00	per hr	\$550.00
Laborer	10	hrs at	\$30.00	per hr	\$300.00

Total Excavation \$2,100.00

**SUMMARY OF CONSTRUCTION COST
Lone Surprise**

Grade Road Surface

..... 1 hrs at \$75.00 per hr \$75.00

Total Grading \$75.00

Project 2 Cost \$2,725.00

Project No. 3: Stockpile

Location: Big Saddle (1000/2300 jct)
 Measured amount: 1000 cubic yards
 Delivered amount: 1200 cubic yards (20% expansion)
 Size: 1 1/2" - 0"

Cost per cubic yard at crusher:	\$7.00	per cu yd
Haul cost per cubic yard (2.4 hr. RT):	\$8.00	per cu yd
Piling and shaping cost per cubic yard:	<u>\$0.53</u>	per cu yd

Total cost per cubic yard:	\$15.53	per cu yd
Total cubic yards:	1200	cubic yards

Total Cost for Stockpile rock: \$18,636.00

Project 3 cost \$18,636.00

Total Project Costs \$25,140.00

TIMBER SALE SUMMARY

Lone Surprise

1. **Type of sale:** Final harvest; Recovery, Sealed Bid.
2. **Boundary Lines:** Sale boundaries are marked on the ground with "Timber Sale Boundary" posters, red paint, and red flagging at locations shown on the Exhibit A.
3. **Revenue Distribution:** 100% CSL, 0% BOF.
4. **Sale Acreage:** The net harvested area is 42 acres. The acreage was determined using ArcView software by digitizing the boundary over an orthophoto image and then calculating the area using a measuring tool in an ArcView program extension.
5. **Volume by Species, Fund, and County:** See table on page 3.
6. **Grade by Percent:**

Species (by Area)	3 Peeler	Special Mill	2 Saw	3 Saw	4 Saw/Camp
Douglas-fir	9	9	65	14	4

7. **Cruise:** The sale area was variable plot cruised using the Big BAF cruise design, which consisted of 52 nested plots. Each plot consists of both a full 20 BAF count plot and a full 250 BAF measure plot. The 20 BAF count plot was used to tally the number of trees by species to determine stand basal area. The 250 BAF plot was used to obtain height, grade and defect. Fifty-nine Big BAF trees were cruised for diameter, height, grade and defect. Cruising was done by ODF Foresters and compiled using Superace and Excel, in November 2002. The combined sampling error for board foot volume was 9%.

A. Cruise Summary Data:

Diameter	Top Diameter	Form Point	Form Factor	CV %	SE %
D4H	Total Height	Conifer: 16' Hardwood: 16'	Recorded or estimated on all trees	34	9

B. Stand Summary:

Species (By Area)	D4H	Trees per Acre	Basal Area (ft ² /ac)	Net BF per acre
Douglas-fir	20	85	232	58.8
Hemlock	17	31	46	5.3
Red Cedar	19	7	14	Reserved from Harvest
Hardwoods	14	4	5	0.3

C. Green Tree Retention Summary: The following volumes represent trees within the cruised portion of the sale area that are marked with red paint or otherwise reserved from harvest for the purposes of retention. These tree volumes were deducted from the cruise results.

	Old-Growth Douglas Fir	Western Red Cedar
Volume (MBF)	45	42

- 8. Timber Description:** The majority of the sale area is composed of 128 year old second growth Douglas Fir of good to average quality, intermixed with small amounts of Western hemlock, Old-growth Douglas Fir, Western red cedar and a light under-story of red alder. Douglas Fir old growth marked with red painted "W"s and any Western red cedars are to be left uncut.
- 9. Topography:** The sale area is moderately steep (>60%) with some gentler bench areas in the northern portion of the unit. The topographic map for this area does not reflect the relief in great detail.
- 10. Logging Method:** The sale areas will be cable logged uphill with single-end suspension over the unit. Full suspension will be required as necessary to protect streams and RMAs. A motorized carriage may be needed to obtain the necessary suspension.
- 11. Access:** From Reedsport, take Highway 38 for approximately 13 miles to Douglas County Road No. 3 (Mill Creek/Loon Lake Road). Follow Douglas County Road No. 3 for approximately 16 miles (past Loon Lake and through Ash Valley) leaving the black top and traveling on the graveled section until entering the sale area.
- 12. Projects:**
- Project No. 1: Road Construction
 - Project No. 2: Road Improvement
 - Project No. 3: Rock Stockpile

NET VOLUMES AND ACREAGE

SALE AREA & SPECIES		Tree cnt. 100% Units	NET VOLUMES (MBF)							Total Vols.	Vol. per Acre
			By County and Fund								
			Coos			Douglas					
Area	Spec		CSL	BOF	Total	CSL	BOF	Total			
I	D-fir				0	2464			2464	2464	58.7
	OGDF				0	4			4	4	0.1
	Hem				0	221			221	221	5.3
	Cedar				0				0	0	0.0
	Hdwd				0	14			14	14	0.3
TOTALS			0	0	0	2703	0		2703	2703	

TOTAL SALE VOLUME BY SPECIES

Douglas-fir 2468 MBF
Hemlock 221 MBF
RedCedar 0 MBF
Hardwoods 14 MBF

Report by: R. Fields

Date: 3/28/2003

Unit For. Robert E Fields 3/28/03
Date

Asst. Dist. For. Greg Kreininger 3/28/2003
Date

**UTILITY VOLUME NOT SHOWN TO PROVIDE FOR RETENTION OF DOWN LOGS
NO INGROWTH INCLUDED**

ACREAGE BY COUNTY (to nearest acre)

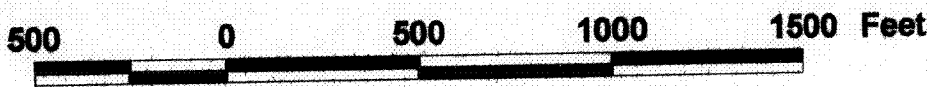
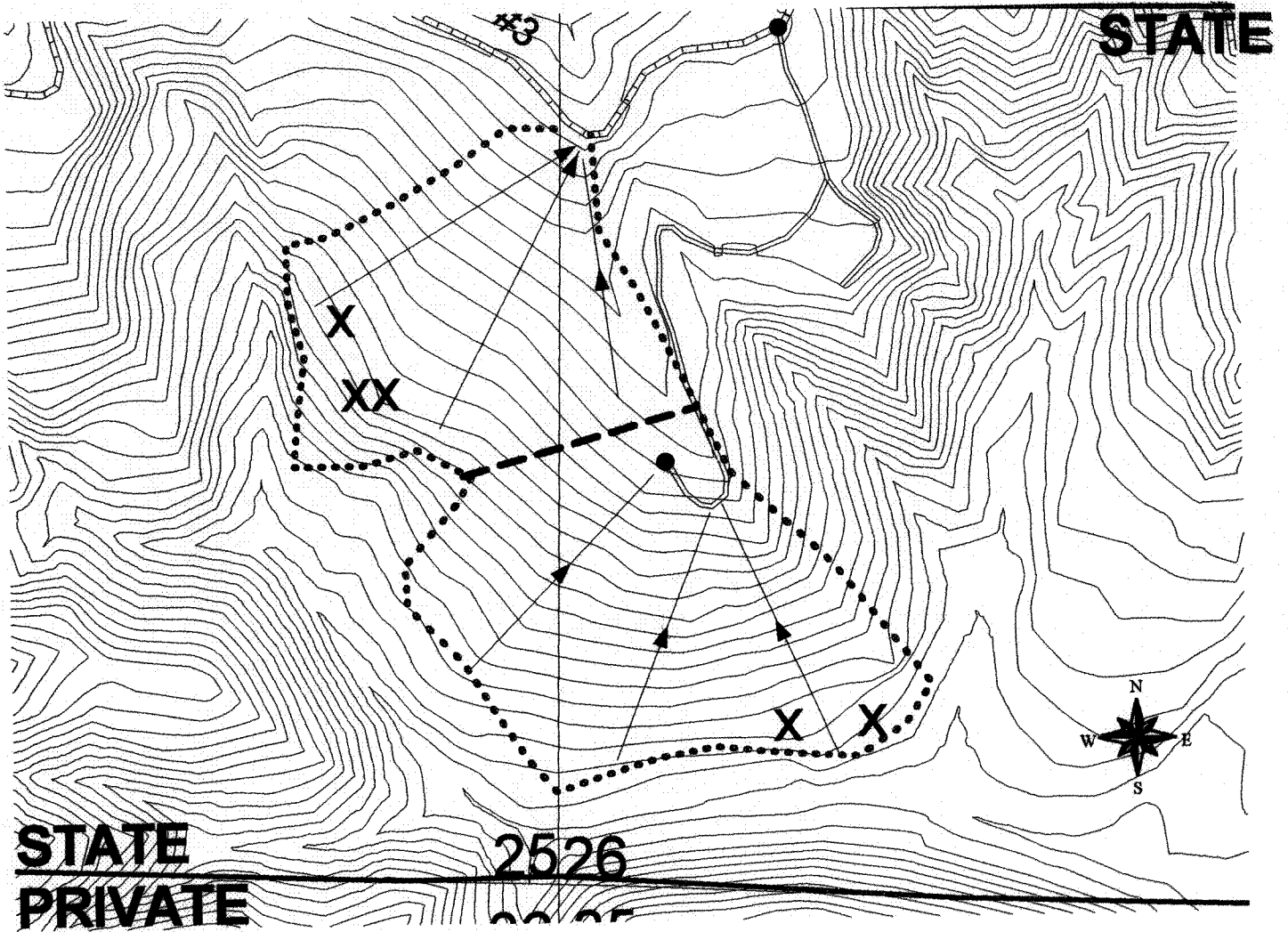
Sale Area	Coos County						Douglas County						TOTAL ACRES	
	CSL			BOF			CSL			BOF				
	Conifer		Hard wood	Conifer		Hard woods	Conifer		Hard woods	Conifer		Hard woods		
	cc	pc		cc	pc		cc	pc		cc	pc			
I								42						42
SUM	0	0	0	0	0	0	0	42	0	0	0	0	0	42

cc- clearcut

pc- partial cut

BOF - Board of Forestry

CSL - Common School Land



- Setting Boundary
- Yarding Detail
- 20 Foot Countours
- Roads
- Douglas Co. Rd. #3
- Forest Boundary
- Sale Boundary

Scale: 1 inch = 500 feet

LOGGING PLAN

Lone Surprise
 Portions of Sections 25 and 26, T23S, R10W, W.M.
 Douglas County, Oregon

ACREAGE: 42

WRITTEN PLAN

SALE NAME: Lone Surprise
LOCATION: Portions of Sections 25 and 26; T23S; R10W; Douglas County, Oregon
LANDOWNER: Oregon Department of Forestry; 63612 Fifth Road, Coos Bay, Or.
CONTRACT PURCHASER: _____
NOTIFICATION NO: _____
FILE: I:\Timber Sales\FPAPLANS\Lone Surprise.doc (1/22/03)

SITUATION AND PROTECETED RESOURCE

The Lone Suprise timber sale is located in the *Tye Core Area*. Slope and headwalls within the sale area are in excess of 60% gradient and therefore could be potential high risk sites. The protected resource is the downstream Type F section of Surprise Creek.

LAYOUT

Landings have been provided to enable best possible deflection for suspension of logs while yarding the sale area.

FELLING AND BUCKING

- 1. Trees shall be directionally felled parallel to or away from stream riparian management areas (RMA's) as feasible.
- 2. High stumps shall be left as needed to catch rolling logs and minimize their accumulation in stream channels.

YARDING

- 1. Operator will use a machine and logging system capable of fully suspending logs..
- 2. Operator will fully suspend logs when sufficient deflection is available as directed by STATE to protect identified high risk sites.

OPERATIONS PLAN. Purchaser shall attach a yarding plan indicating landing locations, machinery and procedures to be used obtain adequate suspension in the sale area and to minimize impacts during the felling process.

SLOPE PROTECTION. Purchaser shall establish or maintain plant species that will enhance slope stability in harvested areas where needed to minimize the risk of erosion.

O.D.F. REPRESENTATIVE DATE: _____

PURCHASER REPRESENTATIVE DATE: _____

OPERATOR REPRESENTATIVE (if listed on notification) DATE: _____

APPROVED BY: _____ DATE: _____
FOREST PRACTICES/UNIT FORESTER